

# Patent Assignment Abstract of Title

**Total Assignments: 1****Application #:** 09828382**Filing Dt:** 04/06/2001**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** 20020145842**Pub Dt:** 10/10/2002**Inventors:** Ajith K. Kumar, Jeremy McGarry**Title:** Method for detecting electrical faulty conditions in power devices of a propulsion system**Assignment: 1****Reel/Frame:** 011735/0199 **Received:** 05/02/2001 **Recorded:** 04/06/2001 **Mailed:** 07/12/2001 **Pages:** 4**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** KUMAR, AJITH K.**Exec Dt:** 03/22/2001MCGARRY, JEREMY**Exec Dt:** 03/22/2001**Assignee:** GENERAL ELECTRIC COMPANY

A NEW YORK CORPORATION

ONE RIVER ROAD

SCHENECTADY, NEW YORK 12301

**Correspondent:** HOLLAND & KNIGHT, LLP

ENRIQUE J. MORA, ESQ.

P.O. BOX 1526

ORLANDO, FL 32802-1526

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**TITLE:** Electrical short detection method in power devices of railway train propulsion system, involves measuring voltage across power line filter for preset time, when initial voltage of filter is less than predefined threshold

**INVENTOR:** KUMAR, A K; MCGARRY, J

**PATENT-ASSIGNEE:** KUMAR A K[KUMAI] , MCGARRY J [MCGAI]

**PRIORITY-DATA:** 2001US-0828382 (April 6, 2001)

**PATENT-FAMILY:**

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(54) METHOD FOR DETECTING ELECTRICAL FAULTY CONDITIONS IN POWER DEVICES OF A PROPULSION SYSTEM

(52) U.S. CL. 361/90.9; 361/93.6; 361/92

(73) Inventors: Ajith K. Kumar, Erie, PA (US); Jeremy McGarry, Erie, PA (US)

(57) ABSTRACT

Correspondence Address:  
HOLLAND & KNIGHT LLP  
PO BOX 1836  
ORLANDO, FL 32802-1836 (US)

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A method for detecting electrical faulty conditions in a plurality of power devices of a propulsion system is provided. The plurality of power devices is connected in parallel circuit through a direct current (DC) link to an external DC power source. The method provides a first sequence of actions for determining an electrical short condition in at least one of the power devices upon the power source being connected. The method further provides a second sequence of actions for determining an electrical open condition in a respective one of the plurality of power devices during the occurrence of high current event.

